MONITOR WELL PRE-SPUD PROPOSAL

1) WELL NAME/NUMBER: BLM-25

2) PROPOSED LOCATION: (a) General (on or off-site) Off-site
(attach map) Site Area BLM Land
(b) Sect 4 Twnshp 21S Rng 3E SW ¼ NE ¼ SE ¼ NE ¼

3) WELL PARAMETERS:
(a) Est. total depth 360 (ft) (b) Est. ground elevation @4624 ft
(c) Anticipated stratigraphy:
Alluvium (Santa Fe Group) from 0 ' to 290 ' (depth)
Andesite (Orejon) from 290 ' to TD ' (depth)
(d) Anticipated water bearing horizon(s):
Andesite (Orejon) at 320 ' (depth)
_____ at _____ ' (depth)
(e) Anticipated static water level 280 ' (depth)

4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):
To define the southern edge of the plume boundary in this area.

5) PROPOSED DRILLING PARAMETERS:
(a) Drilling method(s): (air/foam/mud rotary/auger/etc.)
Mud Rotary from 0 ' to 100 ' (max)
Air-Foam Rotary from 100 ' to TD ' (depth)

Air-foam method: "Quik-Foam" surfactant/water mixture used in conjunction with filtered compress air.

Mud-rotary method: Bentonite mud/water mixture.

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(b) Lithology sampling - collect sample every:

5' intervals Method Grab from 0 ' to TD ' (depth)
Core type 6" Dennison from ' to ' (depth)
2" Christiansen from ' to ' (depth)

(c) Anticipated drilling additive(s): E-Z mud

7) PROPOSED WELL COMPLETION DESIGN/MATERIALS

(a) Casing:	Material	Diameter	From	To	Comments
Temporary					
Surface		10"	0	100' max	
Screen (10')	Stainless ++	4"	To be determined from Geophysical logs		0.02"
Completion Pipe	stainless +	4"	0	TD	

Standard material: Blank riser, silt trap, locking cap

N/A Data not available at this time
\+ Type 304, Schedule 5 stainless steel
Type 304, Schedule 10 stainless steel (used below 400')
++ Regular strength screen, extra strength screen used below 450 feet

(b) Filter pack: Standard 8/20 and 16/40 sand and bentonite plug(s), grout to surface.

8) PROPOSED WELL DEVELOPMENT

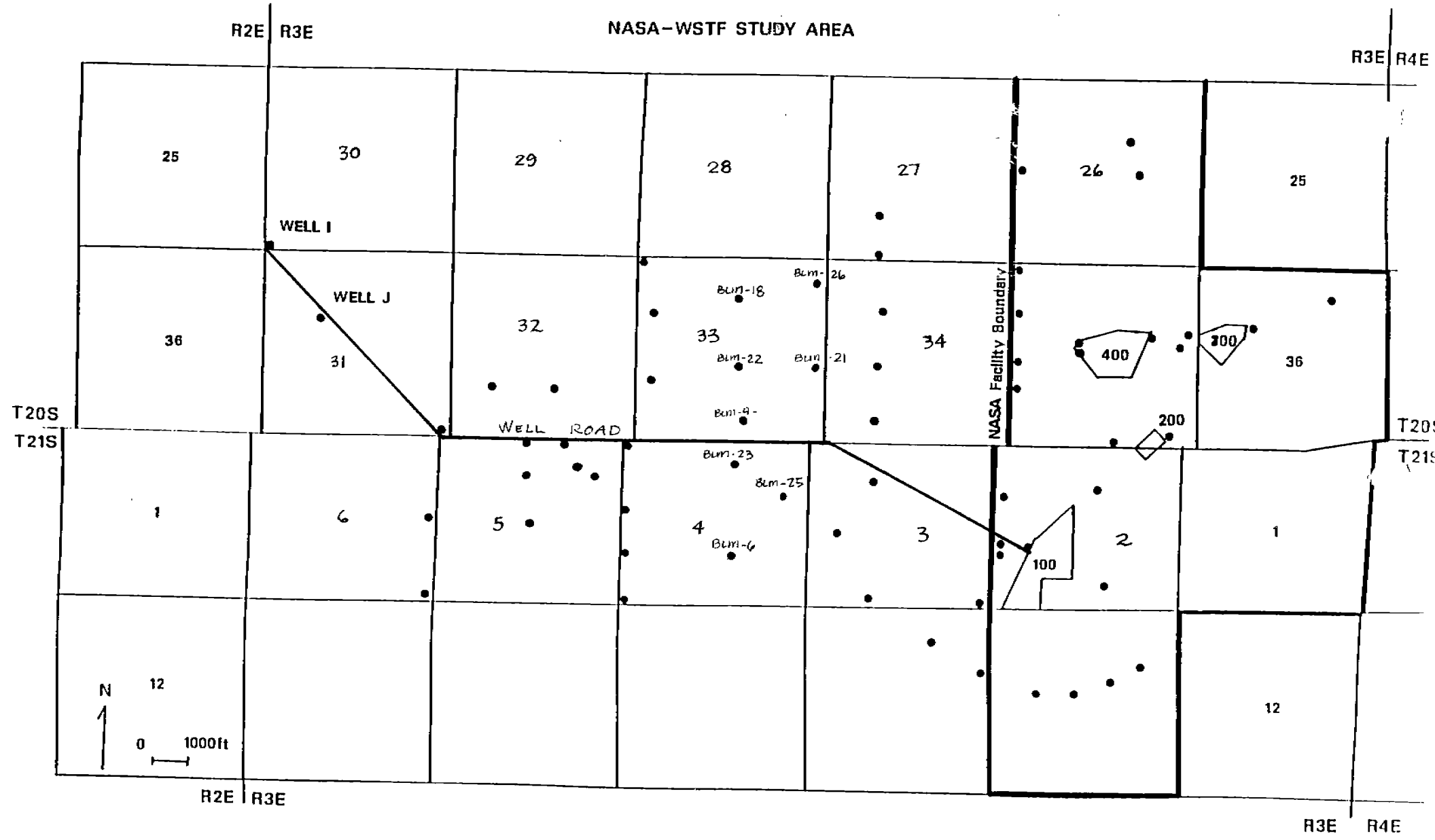
(a) Surge and bail with surge block and bailer.

(b) Pump with submersible pump until parameters stabilize.

9) WELL AUTHORIZATION

(a) Proposed by Geoscience Consultants, Ltd.

(b) Authorized William E. Waldrip (name) NASA (representing) W. E. Waldrip 9/23/91 (signature)


NASA–WSTF STUDY AREA
R2E
R3E
R4E
T20S
T21S
25
30
29
28
27
26
25
WELL I
WELL J
36
31
32
33
34
36
Bum-18
Bum-26
Bum-22
Bum-21
Bum-9
WELL ROAD
NASA Facility Boundary
400
300
200
200
Bum-23
Bum-25
Bum-6
1
6
5
4
3
2
1
100
12
12
N
0
1000ft